	Application No.	Applicant(s)
Notice of Allowability	10/091,416	AIZENBUD-RESHEF ET AL.
	Examiner	Art Unit	
	Anna Deng	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *4/7/2006*.

2. ☒ The allowed claim(s) is/are *1-8, 10-38*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the
            International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   This action is in response to the amendment filed on 4/17/2006.

2.   The rejection under 35 U.S.C, 102 (e) as being anticipated by Alur et al. US 6,516,306 B1 to claims 1- 17, 19 – 24, and 29 – 38 is withdrawn in view of applicant's amendment.

3.   The rejection under U.S.C. 103 (a) as being unpatentable over Alur et al. US 6,516,306 B1, in view of Schwabe et al. US 6,848,111 B1 to claim 18 is withdrawn in view of applicant's amendment.

4.   The rejection under U.S.C. 103 (a) as being unpatentable over Alur et al. US 6,516,306 B1, in view of Schwabe et al. US 6,848,111 B1, and further in view of Klein et al. US 5,499,364 A to claims 25 – 28 is withdrawn in view of applicant's amendment.

5.   Claims 1, 10 – 12, 15, 18 – 20, 23, 26, 29 – 32, and 36 – 38 have been amended.

6.   Claim 9 is cancelled (See Examiner's Amendment below).

7.   Claims 1, and 37 – 38 are amended (See Examiner's Amendment below).

8.   Claims 1 – 8, and 10 – 38 are pending.

9.   Claims 1 – 8, and 10 – 38 are allowed.

EXAMINER'S AMENDMENT

10.   An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

        Authorization for this examiner's amendment was given in a telephone interview with Ronni S. Jillions (Reg. No. 31,979) on 6/14/2006 to place the claimed subject matters in the condition for allowance.

        The application has been amended as follows:

In the Claims:

        Claim 9 is cancelled.

        Claims 1, and 37 – 38 are amended.

Claim 1 (Currently Amended):

At line 7, change

"covers a predefined property;"

to:

-- covers a predefined property, wherein defining the coverage criteria comprises selecting a coverage model from at least one of processing node coverage, terminal coverage, connection coverage, path coverage, one or more nodes coverage, statement coverage, multiple condition coverage, exception coverage, external resources coverage, and message content coverage;--

Claim 9 (Cancelled)

Claim 37 (Currently Amended):

At line 7, change

"predefined property,"

to

-- predefined property, wherein the defined coverage criteria comprises selecting a coverage model from at least one of processing node coverage, terminal coverage, connection coverage, path coverage, one or more nodes coverage, statement coverage, multiple condition coverage, exception coverage, external resources coverage, and message content coverage, --

Claim 38 (Currently Amended):

At line 4, change

"elements, comprising a computer-readable medium having"

To

-- elements, comprising a computer-storage medium having --

At lines 9, change

"predefined property,"

to

"predefined property, wherein the defined coverage criteria comprises selecting a coverage

model from at least one of processing node coverage, terminal coverage, connection coverage, path

coverage, one or more nodes coverage, statement coverage, multiple condition coverage, exception

coverage, external resources coverage, and message content coverage,"

-- END --

REASONS FOR ALLOWANCE

11.   The following is an examiner's statement of reasons for allowance:

The cited prior arts taken alone or in combination fail to teach, in combination with the other claimed

limitations of a method for assessing adequacy of a message-flow test suite for testing a message flow

through a set of message flow elements, the method comprising: defining coverage criteria providing

numerical evaluations of an extent to which the message-flow test suite covers a predefined property;

wherein defining the coverage criteria comprises selecting a coverage model from at least one of

processing node coverage, terminal coverage, connection coverage, path coverage, one or more nodes

coverage, statement coverage, multiple condition coverage, exception coverage, external resources

coverage, and message content coverage; determining a numerical message-flow-coverage-goal for the

message flow with respect to the coverage criteria; applying the message-flow test suite to the message

flow, while evaluating the coverage criteria so as to generate a numerical coverage result for the set of

message flow elements; and comparing the numerical coverage result with numerical message-flow-

coverage-goal, so as to evaluate the adequacy of the message-flow test suite as recited in independent

claims 1, and 37 – 38.

The closest cited prior arts, the combination of Alur et al. (US 6,516,306 B1), Schwabe et al. (US

6,848,111 B1), and Klein et al. (US 5,499,364 A), teaches a method for assessing adequacy of message

flow testing. However, the combination of of Alur et al. (US 6,516,306 B1), Schwabe et al. (US 6,848,111

B1), Klein et al. (US 5,499,364 A) fails to teach "defining coverage criteria providing numerical evaluations of an extent to which the message-flow test suite covers a predefined property; wherein defining the coverage criteria comprises selecting a coverage model from at least one of processing node coverage, terminal coverage, connection coverage, path coverage, one or more nodes coverage, statement coverage, multiple condition coverage, exception coverage, external resources coverage, and message content coverage; determining a numerical message-flow-coverage-goal for the message flow with respect to the coverage criteria; applying the message-flow test suite to the message flow, while evaluating the coverage criteria so as to generate a numerical coverage result for the set of message flow elements; and comparing the numerical coverage result with numerical message-flow-coverage-goal, so as to evaluate the adequacy of the message-flow test suite" as recited in independent claims 1, and 37 – 38, also as pointed out in the applicant's remarks on pages 15 – 17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
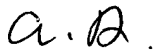

Conclusion

12.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anna Deng whose telephone number is 571-272-5989. The examiner can normally be reached on Mondays to Fridays 9:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-2708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Anna Deng

June 14, 2006

WEI ZHEN
SUPERVISORY PATENT EXAMINER